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FIFTH BIENNIAL REPORT

OF THE

STATE

INSPECTOR OF COAL MINES

OF THE

STATE OF COLORADO

YEARS 1891 AND TOPE THILLY HILL THE LIBRARY STATE LIBRARY STATE LIBRARY STATE Publications Library State Publications Library



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PUBLISHED BY AUTHORITY.



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REPORT.

To His Excellency, HON JOHN L. ROUTT,

Governor of Colorado:

Hon. SIR—It is with feelings of regret that I have no alternative, but to herewith present to you this mere subterfuge of a report, in which I am compelled to hold back, rather than set forth, important facts and figures pertaining to the progress of an industry which is one of the foremost in the category of Colorado's commonwealth, if not King itself.

The Eighth General Assembly enacted a law (Senate Bill No. 251) which prescribes that no reports, except those of elected State officers and State Engineer, should exceed twenty pages, and also limited the number of copies to 250. The fact is, that anything less than 150 pages and 2,500 copies would be insufficient, and in the near future it will be necessary for the Inspector to be allowed 200 pages if he would do justice to himself, the State and the coal mining industry.

A bill was introduced before the Eighth General Assembly to govern the working of vertical coal veins, and to prohibit operators from mining coal under any portion of a mine, or in too close proximity to an abandoned mine where water exists, without having first pumped such water out. Such a law will apply to coal mines in Jefferson county, where there is now imminent danger from inundation of water, if the practice of mining coal is continued under flooded levels. It would be a very hard matter to define what thickness of a pillar should be left to guard against inundation. The mining law prescribes that drill holes shall be kept ahead of the working face, at least twelve feet, when in proximity to abandoned workings where water is sus-

pected to exist; and while such a precaution may be all that is necessary in horizontal veins, yet such would be of little service in vertical ones.

From my experience, I would not consider a roofoot pillar an absolute safeguard, for I believe it quite possible, especially where soft material lies between the coal and "foot" wall, for the coal to become freed so as to break and "run" to a sufficient degree as to cause cracks to reach through the pillar, and thus water, under heavy pressure, would quickly make its way through in great volumes; so mining in a vertical vein, under a body of water, cannot be followed with safety, and should be prohibited by law. A bill will be presented to the coming Legislature to regulate the above, which, it is hoped, will pass and become a law.

Sincerely thanking your Excellency for the marked attention given this office, and the many official courtesies extended to myself and assistant, Mr. L. S. Jones, to whom I take this opportunity of expressing thanks for the impartial and faithful performance of the work

assigned to him,

I have the honor to be, sir,

Yours faithfully,

JOHN MCNEIL,

State Inspector of Coal Mines.

SUMMARY OF COAL PRODUCTION

OF THE STATE FROM 1873 TO 1892 INCLUSIVE.

| | YEARS. | TONS. |
|--------|--------|-----------|
| | 1873 | 69,977 |
| | 1874 | 87,372 |
| (| 1875 | 98,838 |
| _ | 1876 | 117,666 |
| Со | 1877 | 160,000 |
| Roc | 1878 | 200,630 |
| Rock | 1879 | 322,732 |
| Rocky | 188o | 375,000 |
| Rockva | 1881 | 706,744 |
| Oak (| 1882 | 1,061,479 |
| Alka | 1883 | 1,220,593 |
| Antl | 1884 | 1,130,024 |
| | 1885 | 1.398,796 |
| Cre' | 1886 | 1,436,211 |
| Bal | 1887 | 1,791,735 |
| Su | 1888 | 2,185,477 |
| Ne | 1889 | 2,400,629 |
| Nε | 1890 | 3,075,781 |
| | 1891 | 3,512,632 |
| | 1892 | 3,771,234 |

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PRODUCTION BY COUNTIES

FOR 1891 AND 1892, SHOWING INCREASE AND DECREASE.

| COUNTIES. | 1891. | 1892. | INCREASE. | DECREASE. |
|--------------------|-----------|-----------|-----------|-------------------------|
| Arapahoe | 1,273 | 654 | | 61 |
| Boulder | 498,494 | 569,326 | 70,832 | |
| Dolores | 3,475 | 3,475 | | |
| El Paso | 34,364 | 35,788 | 1,424 | |
| Fremont | 545,789 | 497,382 | | 48,40 |
| Gunnison | 261,350 | 198,483 | | 62,86 |
| Garfield | 191,994 | 285,550 | 93,556 | |
| Huerfano | 494,466 | 541,596 | 47.130 | |
| Jefferson | 17,910 | 23,556 | 5,646 | |
| Las Animas | 1,219,224 | 1,329.178 | 109,954 | |
| La Plata | 72,471 | 89,612 | 17,141 | |
| Mesa | 5,000 | 7,300 | 2,300 | |
| Montezuma | | 675 | 675 | |
| Park | 52,626 | 87,949 | 35,323 | |
| Pitkin | 91,642 | 77,526 | | 14,11 |
| Weld | 22,554 | 13,184 | | 9,37 |
| Sm'll m's not rep. | | 10,000 | 10 000 | |
| Totals | 3,512,632 | 3,771,234 | | |
| Las Animas | 184,047 | 240,177 | 56,130 | |
| Gunnison | 43,910 | 51,879 | 7,969 | |
| Pitkin | 47,014 | 53,019 | 6,005 | |
| La Plata | 5,548 | 10,000 | 4,452 | |
| Mesa | | 20 | 20 | 0 - 0 - 0 0 0 0 0 0 0 0 |
| Totals | 280,519 | 355,095 | 74,576 | |

RECAPITULATION OF STATISTICS FOR 1891–1892.

For the years ending December, 1891–1892, the returns of the coal production made to this office, with estimate made for December, 1892, is as follows:

For 1891 there was produced 3,512,632 tons (of 2,000 lbs.); of this amount about 1,005,000 tons were shipped out of the State to points in Kansas, Texas, Nebraska, Utah and Montana. The average market value of the coal is estimated at \$1.68 per ton, making the spot cash value of the production at the mines \$5,901,221.76. The average number of persons employed during the year was 6,822. Average thickness of the coal seams worked is 8 feet, the thickest is 30 feet, and the thinnest 2 feet. The average tonnage price paid to miners is 78 cts. for 2,400 lbs. "run of mine" coal; the highest tonnage price being \$1.121/2 and the lowest 50 The average cost of producing the coal is estimated at \$1.42, including royalty. There occurred during the year 29 fatal accidents in which 30 lives were lost; six by falls of coal, 17 by falls of rock, 2 from injuries received by pit cars, 2 by premature blasts, 2 by explosions of gas and I by accidental hanging.

By nationality, there were two Austrians, one Bohemian, ten Italians, one German, three Frenchmen, four Englishmen, four Irishmen, two Scotchmen, one Mexican and two whose nationality is unknown.

Average number of tons mined for each life lost, 121,126; average number of persons employed to each fatal accident, 227 2-5.

There occurred during the year 129 non-fatal accidents; 79 by falls of coal and rock, 5 by falling props, 28 by pit cars, 3 by railroad cars, 4 by premature blasts, I by steam pump, 3 by mules, I by coal pick, 3 by hoisting cage, I by pit-lamp exploding, I by falling down slope and I by gas explosion. Average number of tons mined to each non-fatal accident, 27,230; number of persons employed to each non-fatal accident, 53. There was 280,519 tons of coke made during the year.

For 1892 the production is 3,771,234 tons of 2,000 pounds. Of this amount there has been shipped to Kansas, Nebraska, Texas, Utah, California and Montana about 1,200,000 tons. The spot cash value of the production of coal at the mines is \$6,222,536.10. The average number of persons employed at the mines during the year is 7,578. The average tonnage price paid

to the miners for digging and loading the coal and timbering their working places is 75 cents per ton of 2,400 pounds of "run of mine" coal; the highest is \$1 per ton and the lowest 50 cents.

There were 34 lives lost during the year; 10 by falls of coal, II by falls of rock, 2 by premature blasts, 2 by explosion of gas, 2 by pit cars, 2 by hoisting cage, 2 by blown out shots (causing an explosion of gas and coal dust), I by falling off a bucket in a sinking shaft, I by being struck at the bottom of a sinking shaft by a falling bucket, and I who died from heart disease. By nationality there were 12 Italians, 4 Austrians, 1 Bohemian, 1 Mexican, 1 American, 5 English, 3 Irish and 7 Scotch. Average number of tons mined to each life lost is 110,330; average number of persons employed to each life lost 223. There occurred 125 non-fatal accidents; 40 caused by falls of coal, 38 by falls of rock, 26 by pit cars, I by falling pit props, 2 by explosion of gas, 3 by hoisting cage, 3 by mules, 1 by fly-wheel of engine, 1 burned by hot water, 1 by a coal pick, 1 by mule chain, 3 by falling down "manways," I by blown out shot, 4 by premature blasts. Average number of tons mined to each non-fatal accident, 30,170; average number of persons employed to each non-fatal accident, 61.

There was 355,095 tons of coke made during the year, being an increase of 74,576 tons over 1891.

LIST OF FATAL ACCIDENTS, 1891.

January 18—Brazil Prettie, at Marion mine, Grand River Coal and Coke Co., Garfield county; killed by a fall of rock.

January 24—Mike Roseporich, at Caledonia mine, United Coal Co., Boulder county; killed by a fall of coal.

February 5—Joseph Fatta, Road Canon mine, Colorado Coal and Iron Co., Las Animas county; killed by a fall of coal.

February 7—Joseph Trevithick, at Golden Starmine, Golden Coal Co., Jefferson county; killed by a fall of rock.

February 28—James McLelland, San Juan mine, La Plata county; spine crushed by a fall of rock. Died on April 13.

March 10—Thomas Alderoon, at El Moro mine, Colorado Coal and Iron Co., Las Animas county; fatally injured by being caught between a pit car and a "ribside" Died, 12th inst.

March 19—Omerod Singelton, at Forbes' mine, Trinidad Fuel Co., Las Animas county; killed by a fall of rock.

March 23—Joseph Heck, at Crested Butte mine, Colorado Coal and Iron Co., Gunnison county; killed by a fall of rock.

March 26—George Parela, at Marshall mine No. 5. Marshall Coal Co.; killed by a fall of rock.

April 2—James Muldoon, at Simpson mine, United Coal Co., Boulder county; killed by a fall of coal.

April 3—Thomas Gallagher, at Rockvale mine No. 7, Canon City Coal Co., Fremont county; killed by a premature blast.

May 19—George Isaacs, at Acme mine, Acme Coal Co., Boulder county; killed by a fall of rock.

June I—Domnick Bertino, at Road Canon mine, Colorado Coal and Iron Co., Las Animas county; killed by a fall of rock.

June 3—Felix Lotine, at El Moro mine, Colorado Coal and Iron Co., Las Animas county; fatally injured by a fall of slate. Died on the 5th inst.

July 21—George Simmonds, at Como mine No, 5, Union Pacific Coal Co, Park county; killed by a premature blast.

July 25—Mike Jennings, at Spring Gulch mine, Grand River Coal and Coke Co., Pitkin county; killed by a fall of slate.

August 28—John Smith, at Rouse mine, Colorado Fuel Co., Las Animas county; fatally injured by being struck by a trip of cars Died September 5.

September 2—James Politano, at Victor mine No. 3, Victor Coal Co., Las Animas county; fatally injured by a fall of slate. Died 4th inst.

September 12—Frederick Beach (a trapper boy), found dead hanging to a rope. It is supposed he accidently hanged himself while playing with a rope; accident occurred at Coal Creek mine No. 2, Colorado Coal and Iron Co., Fremont county.

September 25—Thomas Chido, Cameron mine, Colorado Coal and Iron Co., Huerfano Co.; fatally injured by a piece of coal from a blast. Died 25th inst.

October 8—Joseph Bezot, at Rouse mine, Colorado Fuel Co., Las Animas county, killed by a fall of rock.

October 14—Frank Desideris, at Cameron mine, Colorado Coal and Iron Co., Huerfano county; killed by a fall of rock.

October 24—Jano Bartholemew and Mike Williams, at Coal Ridge mine, Colorado Fuel Co., Garfield county; killed by an explosion of gas and coal dust. Said to be under assumed names.

November II—Guiseppe Antonelli, at Road Canon mine, Colorado Coal and Iron Co, Las Animas county; killed by a fall of slate.

November 12—Alex. McDonald, at Marion mine, Grand River Coal and Coke Co., Garfield county; thigh bone broken by a piece of coal from a chute. It appears that Alex. McDonald was put under the influence of opiates, and never became conscious again.

November 28—John Gradisen, at Crested Butte mine, Colorado Coal and Iron Co., Gunnison county; killed by a fall of coal.

November 30—James Duggan, at Anthracite mine, Colorado Fuel Co., Gunnison county; killed by a fall of rock.

December 5—James Cox, Anthracite mine, Gunnison county; killed by a fall of rock.

December 8—Acon Vittoria, Rouse mine, Huerfano county; killed by a fall of rock.

TABLE SHOWING NON-FATAL ACCIDENTS, 1891.

| January 5 Chr January 9 Gri January 12 Jos January 12 Hai January 15 Joh January 15 Joh | NAME OF PERSON. Christova Rivera Griff Marome Jose Richardson Harry Nichols Nicol Dilaylio | OCCUPATION. Miner | NAME OF MINE. | COMPANY. | COUNTY. | NATURE OF ACCIDENT. | CAUSED BY |
|--------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|-------------|------------------------|------------------------|
| 5 6 2 1 2 1 2 5 1 5 1 5 1 | istova Rivera ff Marome e Richardson rry Nichols ol Dilaylio | Miner | The state of the s | | | | |
| 15 15 15 15 15 | ff Marome e Richardson rry Nichols ol Dilaylio | | No. 2 Coal Creek | Colo. Coal & Iron Co. | Fremont | Leg broken | Fall of rock |
| 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | e Richardson rry Nichols ol Dilaylio | Pusher | No. 1 Coal Creek | No. 1 Coal Creek Colo, Coal & Iron Co. | Fremont | Back wrenched. | |
| 15 15 17 | ol Dilaylio | Miner | No. 1 Coal Creek | No. 1 Coal Creek Colo. Coal & Iron Co. | Fremont | Side bruised | . Pit car |
| 15 | ol Dilaylio | Miner | No. 2 Starkville. | Trinidad C. & C. Co. | Las Animas. | Ankle bone f'ct'd | . Pit car |
| 15 | n McDonald | Miner | No. 1 Coal Creek | Colo. Coal & Iron Co. | Fremont | Side bruised | Fall of slate |
| IO | | Miner | Walsen | Colo. Coal & Iron Co. | Huerfano | Head bruised | Struck by falling prop |
| | Martin Smolka | Miner | Walsen | Colo. Coal & Iron Co. | Huerfano | Back bruised | Fall of slate |
| January 20 Joh | John Barrino | Pusher | Chandler | Western Fuel Co | Fremont | Legs bruised | Fall of rock |
| January 21 R. T | R. T. Stewart | Miner | No. 2 Coal Creek | Colo. Coal & Iron Co. | Fremout | Head cut | Fall of slate |
| January 24 Joh | John Howell | Pusher | Chandler | Western Fuel Co | Fremont | Breast bruised. | Fall of rock |
| January 26 Joh | John B. Hughes | Laborer | No. 2 Coal Creek | Colo. Coal & Iron Co. | Fremont | Fingers bruised. | Railroad car |
| January 26 Mik | Mike Peirce. | Miner | No. 1 Coal Creek | Colo. Coal & Iron Co. | Fremont | Head cut | Fall of slate |
| January 31 Pas | Pasco Autril | Miner | No. 1 Coal Creek | Colo. Coal & Iron Co. | Fremont | Leg broken | Fall of coal |
| February 4 Ant | Antonia Dominico | Miner | Caledonia | United Coal Co | Boulder | Leg bruised | Fåll of rock |
| February 6 Per | Percey Lacley | Miner | Baker | Baker Coal Co | Boulder | Slightly bruised. | Fall of coal |
| February 10 Nic | Nicholas Marks | Miner | Chandler | Western Fuel Co | Fremont | Slightly burned. | Explosion of powder |
| February 18 Joe | Joe Lucea | Laborer | El Moro | Colo. Coal & Iron Co. | Las Animas. | Foot bruised | Railroad car |
| February 23 William Loundro. | | Trapper | No. 1 Chicosa | Trinidad Fuel Co | Las Animas. | Head bruised | Pit car |

| March | | | | | | | | |
|---------|--------|------------------|---------|-------------------|-----------------------------------|-------------|-------------------|---------------------|
| | I A | Alfred Wood | Miner | No. 2 Chicosa | Trinidad Fuel Co | Las Animas. | Leg sligh'y brs'd | Fall of rock |
| March | 2 A | A. J. Martinez | Miner | No. 2 Victor | Victor Coal Co | Las Animas. | Back wrenched. | Pit car |
| March | 4 J | Juan Mestes | Miner | No. 2 Victor | Victor Coal Co | Las Animas. | Leg bruised | Fall of rock |
| March I | 17 Jo | John Hosa | Miner | No. 2 Coal Creek | Colo. Coal & Iron Co. | Fremont | Side bruised | Pit car |
| March 1 | 18 Jo | John Star | Miner | Excelsior | United Coal Co | Boulder | Side bruised | Pit car |
| March D | of 61 | John McDonald | Miner | El Moro | Colo. Coal & Iron Co. | Las Animas. | Leg bruised | Fall of rock |
| March 2 | 20 Jc | Joe De Lagua | Miner | No. 2 Coal Creek | Colo. Coal & Iron C. | Fremont | Back sl'gt'y hurt | Fall of slate |
| March 2 | 21 T | Thomas Bodycomb | Miner | No. 2 Coal Creek | Colo. Coal & Iron Co. | Fremont | Foot bruised | Fall of rock |
| March 2 | 2I R | Richard Berry | Miner | No. 2 Chicosa | Trinidad Fuel Co | Las Animas. | Arm bruised | Fall of rock |
| March 2 | 28 P | Peter Falen | Miner | El Moro | Colo. Coal & Iron Co. | Las Animas. | Finger bruised | Unloading pit props |
| March 3 | 30 Jc | John Aufleck | Miner | Excelsior | United Coal Co | Boulder | Foot bruised | Machine truck |
| March 3 | 30 E | E, M. Hall | Miner | No. 3 Victor | Victor Coal Co | Las Animas. | Fingers brussed. | Pit car |
| April | 2 Jo | John Salvo | Miner | No. 2 Coal Creek | Colo. Coal & Iron Co. | Fremont | Head cut | Premature blast |
| April | 3 | J. R. Frujillo | Miner | No. 2 Starkville. | Trinidad C. & C. Co. | Las Animas. | Leg broken | Fall of coal |
| April | 3 P | Peter Beck | Blaster | No. 7 Rockvale. | Canon City Coal Co. | Fremont | Slightly burned. | Premature blast |
| April | 3 U | Ubolda Musckitta | Miner | No. 2 Coal Creek | Colo, Coal & Iron Co. | Fremont | Leg broken | Fall of coal |
| April I | II Ji | Julian Romero | Miner | No. 2 Starkville. | Trinidad C. & C. Co. | Las Animas. | Leg broken | Fall of coal |
| April I | 13 P | Paul Snay | Miner | Spencer | United Coal Co | Boulder | Leg fractured | Fall of coal |
| April 2 | 27 Je | John Luchino | Miner | El Moro | Colo. Coal & Iron Co. | Las Animas. | Sm'l leg bone bk | . Pit car |
| May | 5 D | Don Monzetta | Miner | No. 1 Rockvale | Canon City Coal Co | Fremont | Skull fractured | Fall of coal |
| May | 5 Jo | John McAllister | Miner | El Moro | Colo. Coal & Iron Co. Las Animas. | Las Auimas. | Shoulder bruis'd | Fall of coal |

TABLE SHOWING NON-FATAL ACCIDENTS, 1891—Continued.

| May S Dominick Bartino Miner No. 1 Chicosa May 11 Thmas Little Miner El Moro May 11 George Simonich Car dumper El Moro May 13 Silidon Duran Miner El Moro May 26 Dom O. Duna Miner No. 1 Chicosa May 26 Dom O. Duna Miner No. 2 Starkville May 27 George Jamison Mule driver No. 2 Chicosa June 1 W. H. Davis Miner No. 3 Victor June 7 Gus Anderson Miner Sopris June 10 Anton Ross Miner Como June 16 Anton Ross Miner No. 2 Starkville June 17 Jesus Pedregon Miner No. 2 Chicosa June 20 Rogue Coco Miner No. 2 Chicosa June 20 Rogue Coco Miner No. 2 Chicosa | | | | | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------------|-------------|-------------------|--------------------------------------------------|-------------|------------------------|------------------------|
| S Dominick Bartino Miner | DATE. | NAME OF PERSON. | OCCUPATION. | NAME OF MINE. | COMPANY. | COUNTY. | NATURE OF ACCIDENT. | CAUSED BY |
| Thmas Little | | Dominick Bartino | Miner. | No. I Chicosa | Trinidad Fuel Co | Las Animas. | Thumb bruised. | Pit Car |
| 11 George Simonich Car dumper 13 Silidon Duran Miner 26 Dom O. Dona Miner 27 George Jamison Mule driver 30 Arthur Purdon Miner 1 W. H. Davis Miner 27 Gus Anderson Miner 38 Maro Nichals Miner 39 Maro Sichals Miner 40 Antou Ross Miner 50 Rogue Coco Miner 51 Jesus Pedregon Miner 52 John Vartoling Miner | May II | Thmas Little | Miner | El Moro | Colo. Coal & Iron Co. | Las Animas. | Finger amputa'd | Steam pump |
| 13 Silidon Duran Miner 15 Camillo Costa Miner 26 Dom O. Dona Miner 30 Arthur Purdon Mule driver 1 W. H. Davis Miner 5 Gus Anderson Miner 6 Maro Nichals Miner 7 Gus Anderson Miner 8 Reese Davis Miner 9 Maro Nichals Miner 10 Charles Ford Miner 11 Jesus Pedregon Miner 12 Jesus Pedregon Miner 13 Reese Davis Miner 14 Rese Davis Miner 15 John Vartoling Miner 16 Miner 17 Miner 18 Miner 19 Miner 10 Miner 10 Miner 10 Miner 10 Miner 11 Miner 12 Miner 13 Miner 14 Miner 15 Miner 16 Miner 17 Miner 18 Miner 19 Miner 10 Miner 10 Miner 10 Miner 11 Miner 12 Miner 13 Miner 14 Miner 15 Miner 16 Miner 17 Miner 18 Miner 19 Miner 10 Miner 10 Miner 10 Miner 11 Miner 12 Miner 13 Miner 14 Miner 15 Miner 16 Miner 17 Miner 18 Miner 18 Miner 19 Miner 10 Miner 10 Miner 10 Miner 11 Miner 12 Miner 13 Miner 14 Miner 15 Miner 16 Miner 17 Miner 18 Miner 19 Miner 10 Miner 10 Miner 10 Miner 11 Miner 12 Miner 13 Miner 14 Miner 15 Miner 16 Miner 17 Miner 18 Miner 18 Miner 19 Miner 10 Miner 10 Miner 10 Miner 11 Miner 12 Miner 13 Miner 14 Miner 15 Miner 16 Miner 17 Miner 18 Miner 18 Miner 19 Miner 10 Miner 1 | May II | George Simonich | Car dumper | Crested Butte | Colo. Coal & Iron Co. | Gunnison | Arm broken | . Pit car |
| 15 Camillo Costa Miner Miner 26 Dom O. Dona Miner Miner 30 Arthur Purdon Mule driver 1 W. H. Davis Miner 27 Gus Anderson Miner 39 Maro Nichals Miner 4 Maro Nichals Miner 5 Antou Ross Miner 6 Antou Ross Miner 7 Jesus Pedregon Miner 8 Reese Davis Miner 9 Rogue Coco Miner 10 Niner 11 Miner 12 Miner 13 Miner 14 Miner 15 Miner 16 Miner 17 Miner 18 Miner 19 Miner 10 Mine | | | Miner | El Moro | Colo. Coal & Iron Co. | Las Animas. | Arm broken | Struck by falling prop |
| 26 Dom O. Dona Miner 27 George Jamison Mule driver 30 Arthur Purdon Mule driver 1 W. H. Davis Miner 2 Maro Nichals Miner 10 Charles Ford Miner 16 Anton Ross Miner 17 Jesus Pedregon Miner 20 Rogue Coco Miner 20 John Vartoling Miner | | | Miner | No. 1 Chicosa | Trinidad Fuel Co | Las Animas. | Back bruised | Fall of rock |
| 27 George Janison Mule driver 30 Arthur Purdon Mule driver 1 W. H. Davis Miner 7 Gus Anderson Miner 9 Maro Nichals Miner 10 Charles Ford Miner 16 Anton Ross Miner 17 Jesus Pedregon Miner 20 Rogue Coco Miner 20 John Vartoling Miner | | | Miner | New Castle | Grand R. C. & C. Co. Garfield | Garfield | Leg bruised | Fall of coal |
| 30 Arthur Purdon Mule driver 1 W. H. Davis Miner 7 Gus Anderson Miner 9 Maro Nichals Miner 10 Charles Ford Mule driver 16 Antou Ross Miner 17 Jesus Pedregon Miner 20 Rogue Coco Miner 20 John Vartoling Miner | | | Mule driver | No. 2 Starkville. | Trinidad C. & C. Co. | Las Animas. | Leg bruised | Pit car |
| 1 W. H. Davis | | | Mule driver | No. 2 Chicosa | Trinidad Fuel Co | Las Animas. | Wrist sprained | Pit car |
| 7 Gus Anderson Miner | June I | W. H. Davis | Miner | Como | Union Coal Co | Park | Arm broken | Fall of rock |
| 9 Maro Nichals Miner 10 Charles Ford Mule driver 16 Anton Ross Miner 17 Jesus Pedregon Miner 18 Reese Davis Miner 20 Rogue Coco Miner 20 John Vartoling Miner | June 7 | Gus Anderson | Miner | No. 3 Victor | Victor Coal Co | Las Animas | Collar bone brkn | Fall of coal |
| 10 Charles Ford Mule driver 11 Jesus Pedregon Miner 12 Reese Davis Miner 20 Rogue Coco Miner | | _ | Miner | No. 3 Victor | Victor Coal Co | Las Animas. | Collar bone frac. | Iall of coal |
| 16 Anton Ross | | _ | Mule driver | Sopris | Colorado Fuel Co | Las Animas. | Shoulder bruised | Struck by falling prop |
| 17 Jesus Pedregon | | | Miner | Como | Union Coal Co | Park | Collar bone brkn | Fall of rock |
| 18 Reese Davis Miner 20 Rogue Coco Miner 20 John Vartoling Miner | | | Miner | No. 1 Chicosa | Trinidad Fuel Co | Las Animas. | Thumb bruised. | Fall of rock |
| 20 Rogue Coco. Miner. 20 John Vartoling Miner. | | | Miner | No. 2 Starkville. | Trinidad C. & C. Co. | Las Animas. | Foot bruised | Pit car |
| 20 John Vartoling Miner | | | Miner | No. 2 Chicosa | Trinidad Fuel Co | Las Animas. | Foot bruised | Fall of coal |
| | | | Miner | No. 1 Rockvale. | Canon City Coal Co. | Fremont | Toe bruised | Fall of rock |
| June 22 Esilo Mawzani Miner Sopris | | | Miner | Sopris | Colorado Fuel Co Las Animas. Fingers bruised | Las Animas. | Fingers bruised. | Fall of coal |

| Fall of coal | Pit car | Fall of rock | Railroad car | Fall of rock | Fall of rock | The section of the se | Explosion of powder | Fall of coal | Fall of coal, | Fall of coal | Fall of rock | Fall of slate | Fall of slate | Fall of rock | | Fall of coal | Fall of coal | Fall of rock | Pit car | Fall of rock | Pit car |
|-----------------------------------------------|------------------|----------------------|-----------------------------|------------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------|----------------------|-----------------|----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------|---------------------|----------------|----------------|----------------|
| Knee bruised | Foot cut | Both legs broken | Two ribs broken | Leg broken | Toes amputated | Doth men harne | Both men buint | Leg broken | Leg broken | Leg broken | Leg bruised | Leg broken | Back injured | Leg bruised | Leg broken | Leg broken | Back bruised | Spine fractured. | Finger bruised | Foot bruised | Foot bruised |
| Las Animas. | Las Animas. | Las Animas. | Garfield | Las Animas. | Las Animas. | Toc Amimos | Las Ammas. | Las Animas. | Las Animas. | Las Animas. | Fremont | Fremont | Fremont | Fremont | Fremont | Gunnison | Jefferson | Fremont | Las Animas. | Las Animas. | Las Animas. |
| Colorado Fuel Co Las Animas. Knee bruised | Trinidad Fuel Co | Trinidad C. & C. Co. | Grand River C. & C. Company | Trinidad Fuel Co | Colorado Fuel Co | Trinidad Buel Co | Tillingad Fuel Co | Colorado Fuel Co | Trinidad C. & C. Co. | Victor Coal Co | Colo. Coal & Iron Co | Colo. Coal & Iron Co. | Golden Fuel Co | Canon City Coal Co. | Victor Coal Co | Victor Coal Co | Victor Coal Co |
| Sopris | No. 2 Chicosa | No. 2 Starkville. | New Castle | No. 2 Chicosa | Sopris | No 2 Chicosa | tio. 2 citicosa | Sopris | No. 2 Starkville. | No. 1 Victor | No. 2 Coal Creek | No. 1 Coal Creek | No. 2 Coal Creek | No. 2 Coal Creek | No. 2 Coal Creek | Crested Butte | White Ash | No. 1 Rockvale | No. 3 Victor | No. 3 Victor | No. 3 Victor |
| Miner | Miner | Miner | Loader | Miner | Miner | Miners | | Miner | Miner | Miner | Miner | Miner | Miner | Miner | Miner | Miner | Miner | Miner | Miner | Min er | Mule-driver |
| 22 Bartolo Cappini | Neil O. Donald | Matther Lynn | James Markinson | Joseph Alsi | S. Guescardo | Geo. Hay | Edwin Williams | John Seboyski | Richard Clements | Richard Wilmoth | Antonia Muscat | Thomas Hodge | Thomas Clark | J. Shappell | John Antrill | Jose Golibick | Lewis Lewis | John Jones | Juan Lopez | Nicolli Gavino | Tim Kearney |
| June 22 | June 25 | July 3 | July 7 | July 8 | July 8 | July 15 | July 15 | July 20 | July 22 | July 23 | July 29 | Angust 6 | Angust 111 | August 18 | August 20 | Angust 20 | Angust 28 | Angust 28 | August 29 | September 2 | September 7 |

TABLE SHOWING NON-FATAL ACCIDENTS, 1891—Continued.

| DATE. | NAME OF PERSON. | OCCUPATION. | NAME OF MINE. | COMPANY. | COUNTY. | NATURE OF ACCIDENT. | CAUSED BY |
|-------------------------|--------------------------------|-------------|-------------------|---------------------------------|-------------|------------------------|--------------------------|
| ptember 10 | September 10 Benito Reveni | Miner | No. 2 Starkville. | Trimidad C. & C. Co. | Las Animas. | Foot bruised | Fall of rock |
| September 16 Ben Philp. | Ben Philp | Miner | White Ash | Golden Fuel Co | Jefferson | Leg broken | Fall of rock |
| September 21 | Thomas Stark | Miner | Welch | Marshall Coal Co | Boulder | Injured | Engineer neglected to |
| September 21 | Geo. Morstila | Miner | Welch | Marshall Coal Co | Boulder | Injured | reversee ugine, cage |
| September 21 | Peter Andrews | Miner | Welch | Marshall Coal Co | .Boulder | Injured | force. |
| ptember 23 | September 23 Richard Grant | Mule driver | No. 1 Victor | Victor Coal Co | Las Animas. | Finger bruised | |
| ptember 28 | September 28 J. A. Schneider | Miner | Acme | Acme Coal Co | Boulder | Two ribs broken | Fall of rock |
| ptember 29 | September 29 Pasco De Pegallia | Miner | No. 2 Coal Creek | Col. Coal & Iron Co. | Fremont | Aukle bone br'k | Fall of rock |
| September 30 | Nickol Massara | Trapper | No. 2 Coal Creek | Col. Coal & Iron Co. | Fremout | Wrist sprained | Pit car |
| October 3 | Pedro Ortes | Miner | No. 2 Victor | Victor Coal Co | Las Animas. | Head bruised | Fall of slate |
| October 6 | Maurice Jones | Miner | Loveland | Golden Fuel Co | Jefferson | Leg broken | Fall of rock |
| October 6 | Wm. Cowan | Timber man | No. 2 Coal Creek | Col. Coal & Iron Co. | Fremont | Back injured | Struck by falling timber |
| October 10 | Joe Richardson | Laborer | No. I Coal Creek | Col. Coal & Iron Co. | Fremont | Hand bruised | Pit car |
| October 10 | Arch'd Hurst | Trapper | No. 2 Victor | Victor Coal Co | Las Animas | Finger amp'td | Pit car |
| October 10 | Rob't Fleming | Miner | Sopris | Col. Fuel Co | Las Animas. | Arm bruised | Kick from a mule |
| October 12 | Peter Kelly | Mule driver | No. 2 Victor | Victor Coal Co | Las Animas. | Finger amp'td | Caught in mule harness |
| October 14 | Frank Ruchers | Miner | No. 2 Coal Creek | Col. Coal & Iron Co. | Fremont | Foot bruised | Fall of coal |
| October 15 | 15 Marcus Mikelich | Miner | Crested Butte | Col. Coal & Iron Co. Gunnison | - | Leg broken | Fall of rock |
| | | | | | | | |

| October 16 | 16 Frank Rich | Miner | No. 2 Coal Creek | No. 2 Coal Creek Colo. Coal & Iron Co. Fremont . | - 1 | Finger injured | Coal pick |
|-------------|-------------------------------|-----------|------------------|------------------------------------------------------|-------------|-------------------|----------------------|
| October 19 | reland Thomas Ireland | Fire boss | New Castle | Grand Riv'r C.& C.Co | Garfield | Leg bruised | Fall of coal |
| October 21 | Geo. Linchrick | Miner | No. 2 Chicosa | Trinidad Fuel Co | Las Animas. | Hip dislocated | Fall of coal |
| October 21 | 21 John Magnene | Miner | Sopris | Colorado Fuel Co | Las Animas. | Toe bruised | Pit car |
| October 23 | 23 Joe Hughs | Miner | Sopris | Colorado Fuel Co | Las Animas. | Back bruised | Fall of slate |
| October 23 | 23 Joe Rennich | Miner | Spencer | United Coal Co | Boulder | Ankle sprained. | Hoisting cage |
| October 23 | 23 Barton Lypp | Miner | No. 2 Coal Creek | Colo. Coal & Iron Co | Fremont | Foot bruised | Pit car |
| October 23 | Moyer Antrill | Miner | No. 2 Coal Creek | Colo. Coal & Iron Co Fremont | Fremout | Collar bone brok' | Fall of rock |
| October 30 | 30 Jim Carobrot | Miner | New Castle | Grand Riv'r C.& C.Co | Garfield | Leg bruised | Fall of coal |
| October 30 | 30 Joe Olero | Miner | New Castle | Grand Riv'r C.& C.Co | Garfield | Leg bruised | Fall of coal |
| November 3 | John Youmick | Miner | Rouse | Colorado Fuel Co | Huerfano | Leg fractured | Fall of slate |
| November 3 | C. Beyocued | Miner | Sopris | Colorado Fuel Co | Las Animas | Thumb bruised. | Caught between rocks |
| November 9 | 9 John Adams | Miner | No. 1 Coal Creek | Colo. Coal & Iron Co | Fremont | Foot injured | Fall of slate |
| November 9 | John Burns | Miner | Sopris | Colorado Fuel Co | Las Animas. | Leg bruised | Pit car |
| mber 11 | November II Lewis Brown | Miner | Como | Union Coal Co | Park | Leg bruised | Fall of rock |
| November 12 | S. C. Brewer | Miner | Rouse | Colorado Fuel Co | Huerfano | Back injured | Fall of slate |
| November 14 | Peter Pullo | Miner | El Moro | Colo. Coal & Iron Co | Las Animas. | Leg bruised | Fall of coal |
| November 14 | Silver Scranzona | Miner | El Moro | Colo. Coal & Iron Co | Las Animas. | Back injured | Fall of coal |
| nber 16° | November 16 August Stenneager | Miner | Sopris | Colorado Fuel Co | Las Animas. | Burned on neck | Pit lamp explosion |
| uber 17 | November 17 John Dalsie | Miner | No. 2 Coal Creek | Colo. Coal & Iron Co | Fremont | Shoulder bruised | Fall of slate |
| aber 19 | November 19 Wm. Bell | Miner | Spencer | United Coal Co | Boulder | | |
| | | | | | | | |

TABLE SHOWING NON-FATAL ACCIDENTS, 1891.—Concluded.

| DATE. | | NAME OF PERSON. | OCCUPATION. | NAME OF MINE. | COMPANY. | COUNTY. | NATURE OF ACCIDENT. | CAUSED BY. |
|-------------|----|------------------------------|-------------|------------------|---------------------------------------------------|-------------|------------------------|--------------------------------------------|
| November | 61 | November 19 Andy Bills | Miner | Spencer | United Coal Co | Boulder | Injured | Engineer neglected to reverse engine; cage |
| November 19 | 61 | Paul Sway | Miner | Spencer | United Coal Co | Boulder | Injured | struck bottom with force. |
| December | 3 | Elijah Sandoval | Miner | No. 1 Victor | Victor Coal Co. | Las Animas. | Leg bruised | Fall of coal |
| December 4 | 4 | Ronaldo Mestis | Miner | No. I Victor | Victor Coal Co. | Las Animas. | Leg bruised | Fall of coal |
| December | 4 | December 4 Wm. Crum | Mule driver | Franceville | Union Ice & Coal Co El Paso_ | El Paso | {Collar bone} | |
| December | 9 | December 6 Edward Barron | Miner | Como | Union Coal Co | Park | Head injured | Falling down slope |
| December | 6 | Wm. Feldhauser | Miner | No. 2 Coal Creek | No. 2 Coal Creek Colo. Coal & Iron Co Fremont | Fremont | Leg bruised | Fall of coal |
| December | 12 | December 12 Alfred Malson | Miner | No. 2 Coal Creek | Colo. Coal & Iron Co Fremont | Fremont | Finger bruised | Pit car |
| December | 15 | December 15 M. J. Brenau | Miner | Chandler | Western Fuel Co | Fremont | Leg broken | Fall of rock |
| December | 91 | December 16 Autonia Avanetta | Miner | No. 1 Victor | Victor Coal Co | Las Animas. | Head injured | Fall of coal |
| December | 17 | December 17 James O. Mally | Miner | No. 1 Coal Creek | Colo. Coal & Irou Co Fremont | Fremont | Legs bruised | Fall of slate |
| December | 18 | December 18 James Harrigan | Miner | Como | Union Coal Co | Park | Slightly burned. | Explosion of gas |
| December | 20 | Wm. Kilroy | Miner | No. I Victor | Victor Coal Co | Las Animas. | Head injured | Fall of coal |
| December | 21 | Antonia Mora | Miner | New Castle | Grand Riv. C. & C.Co Garfield | Garfield | Leg broken | Fall of coal |
| December | 22 | December 22 Gactano Marono | Miner | No. 2 Coal Creek | No. 2 Coal Creek Colo. Coal & Iron Co Fremont | Fremont | Foot bruised | Fall of coal |
| | | | | | | | | |

LIST OF FATAL ACCIDENTS, 1892.

January 2—Pedro Bassi, at Sopris mine, Colorado Fuel Co., Las Animas county; killed by a fall of coal.

January 6—Joseph Matta, at Sopris mine, Colorado Fuel and Iron Co., Las Animas county; received injuries by a fall of coal, from which it is said he died on April 5, of the same year.

January 21—Andrew Walker, at Rockvale mine No. 1, Canon City Coal Co., Fremont county; killed by a fall of coal.

February 9—Attilio Gennett, at New Castle mine, Colorado Fuel and Iron Co., Garfield county; fatally injured by a fall of coal. Died on 10th inst.

February 15—Louis Bohi, at No. 7 mine, Rockvale, Canon City Coal Co., Fremont county; killed by a premature blast

February 27—Louis Dingao, at Sopris mine, Colorado Fuel and Iron Co., Las Animas county; killed by a bucket falling on him at the bottom of a sinking shaft.

March 8—Mike Gusik, at Crested Butte mine, Colorado Fuel and Iron Co., Gunnison county; killed by a fall of rock.

March 10—Louigi Golden, at Victor mine, Victor Coal Co., Las Animas county; killed by a fall of rock.

March 10—Frank Milk, at Marshall shaft, Marshall Coal Co., Boulder county; killed by a fall of coal.

April 7—Antonia Verlinge, at Coal Creek mine No. 2, Colorado Fuel and Iron Co., Fremont county; killed by a fall of rock.

April 16—William Kneebone, at New Castle mine, Colorado Fuel and Iron Co., Garfield county; killed by falling from a bucket in a sinking shaft.

June II—Sevroi Yanoz, at Road Canon mine, Colorado Fuel and Iron Co., Las Animas county; killed by being struck with a pit car.

June 21—Thomas Denehy, at Anthracite mine, Colorado Fuel and Iron Co., Gunnison county; killed by a fall of rock.

June 25—William Little, at Vulcan mine, Vulcan Fuel Co., Garfield county; leg broken, and serious bodily injuries. Died 30th of June.

July I—Corniel Vigil, at Sopris mine, Colorado Fuel and Iron Co., Las Animas county; fatally injured by a fall of rock, dying twelve hours later

July 11—George Lamb and Nicole Garpeta, at Road Canon mine, Colorado Fuel and Iron Co., Las Animas county; both instantly killed by a fall of rock.

July 22—Peter Frank, at New Castle mine, Colorado Fuel and Iron Co., Garfield county; killed by a fall of coal.

July 27—John Merritt, at Robinson mine, Colorado Fuel and Iron Co., Huerfano county; killed by a fall of coal.

August 11—Emannuel Fun, at Sunshine mine, Colorado Fuel and Iron Co., Garfield county; killed by a fall of rock.

August 28—Thomas H. Reese, at Rockvale mine No. 1, Canon City Coal Co., Fremont county; died in the mine from heart disease.

August 29—William Buntin, at Williamsburg mine, United Coal Co., Fremont county; killed by a fall of coal.

September 28—David E. Muir and William M. Holt, at Walsen mine, Colorado Fuel and Iron Co., Huerfano county; killed by an explosion of gas.

October 3—Joseph Houstings, at Hecla mine, Citizens Coal Co., Boulder county; killed by a fall of coal.

October 6—Richard Deloury, at Sunshine mine, Colorado Fuel and Iron Co., Garfield county; fatally injured by an explosion of coal dust caused by a blown out shot. Died on the 8th inst.

October 15—John Ballenick, at Picton mine, Colorado Fuel and Iron Co., Huerfano county; fatally injured by a premature blast. Died, 20th inst.

October 17—John Mulits, Rouse mine, Colorado Fuel and Iron Co., Las Animas county; killed by a fall of rock.

November 16—Benjamino Betiste, at Caledonia mine, United Coal Co., Boulder county; killed by a fall of slate.

December 6—Henry L. Thompson, at Rockvale mine, Canon City Coal Co., Fremont county; killed by a shot blown through pillar.

December 7—Gavino Labato, at Sopris mine, Colorado Fuel and Iron Co., Las Animas county; killed by a fall of coal.

December 23—Harry Collins, miner, at Anthracite mine, Colorado Fuel and Iron Co., Gunnison county; killed by a fall of rock.

December 28—George McIver and Matthew Ransom, "cagers," Acme mine, United Coal Co., Boulder county; killed by being caught between the hoisting cage and shaft timbers.



TABLE SHOWING NON-FATAL ACCIDENTS, 1892.

| UE OF CAUSED BY | sed Fall of coal | usedFall of coal | sedPit car | isedPit car | sedPit car | uredFall of rock | senPit car | sen Fall of coal | kenFall of coal | s bruisedFall of coal | edFall of rock. | ured Fall of coal | ised Fall of rock | sen Fall of rock | sedPit car | isedPit car | senPit car | E Toll of |
|------------------------|---------------------|---------------------|------------------|------------------|------------------|------------------|-----------------------|------------------|---------------------|-----------------------|------------------|-----------------------|-----------------------|-----------------------|---------------------|---------------------|---------------------|--------------------|
| NATURE OF ACCIDENT. | Leg bruised | Foot bruised | Leg bruised. | Foot bruised | Leg bruised | . Head injured | Leg broken. | . Ribs broken | Leg broken | Shoulders bruised | Leg brused. | . Back injured. | . Ribs bruised | Leg broken | Leg bruised | Foot bruised | Ribs broken. | Leo hruised |
| COUNTY. | Fremont | Fremont | Las Animas. | Las Animas. | Las Animas. | Las Animas. | Fremont | Boulder | Fremout | Huerfano | Las Animas. | Huerfano . | Las Animas. | Fremont | Fremont | Fremont | Fremont | Park |
| COMPANY. | Canon City Coal Co. | Canon City Coal Co. | Colorado Fuel Co | Colorado Fuel Co | Trinidad Fuel Co | Trinidad Fuel Co | Colo. Coal & Iron Co. | Gladston Coal Co | Canon City Coal Co. | Colo. Fuel & Iron Co. | Trinidad Fuel Co | Colo. Fuel & Iron Co. | Colo. Fuel & Iron Co. | Colo. Fuel & Iron Co. | Canon City Coal Co. | Canon City Coal Co. | Canon City Coal Co. | Union Coal Co Park |
| NAME OF MINE. | No. 1 Rockvale | No. 1 Rockvale | Sopris | Sopris | No. 3 Chicosa | No. 2 Chicosal | No. 2 Coal Creek | Gladston | No. 2 Rockvale | Picton | No. 2 Chicosa | Pictou | Sopris | No. 2 Coal Creek | No. 1 Rockvale | No. 1 Rockvale | No. 7 Rockvale. | Сощо |
| OCCUPATION. | Miner | Miner | Mule driver | Mule driver | Miner | Miner | Miner | Miner | Miner | Miner | Miner | Miner | Miner | Miner | Switch boy | | Mule driver | Miner |
| NAME OF PERSON. | J. McKenzie | Eli Shappel | J. L. Frujillo | Chris. Neilson | Terrence Felee | John Duliski | Thomas Samuell | Wm. Gromenz | Jos. Bubbish | Joseph Burns | Frank Carpera | J. T. Harvey | Jose Barrellano | James Dalphonso | James Brice | Thomas James | Frank Manning | 23 James Harvey |
| DATE. | January 4 | January 7 | January 7 | January 8 | January 11 | January 11 | January 12 | January 13 | January 14 | January 15 | January 18 | January 18 | January 20 | January 22 | January 22 | January 22 | January 22 | January 23 |

| | | | | | | | , A | , С 1 | O I | | | - | | ATA | 111 | 141) | | | | | 4 | • |
|--------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-------------------|-----------------------|-----------------------|-------------------|-----------------------|-----------------------|-----------------------|------------------|------------------|-----------------------|------------------|-----------------------|-----------------------|-----------------------|-----------------------|---|
| Fall of coal | Fall of slate | Fall of rock | Fall of rock | Fall of coal | Fall of coal | Fall of coal | Fall of rock | Fall of coal | Fall of slate | Fall of rock | Pit car | Fall of rock | Pit car | Fall of coal | Fall of coal | Fall of coal | Fall of coal | Pit car | Premature blast | Premature blast | Fall of coal | |
| Head injured | Hand bruised | Back injured | Leg bruised | Shoulder bruised | Foot bruised | Hand bruised | Back injured | Arm broken | Leg bruised | Foot sprained | Foot bruised | Leg broken | Leg broken | Back injured | Finger amp'tat'd | Leg broken | Arm broken | Hip dislocated | Injured | Injured | Shoulder bruised | |
| Boulder | Fremont | Fremont | Fremont | Fremont | Las Animas. | Fremont | Jefferson | Fremont | Las Animas. | Jefferson | Las Animas | Garfield | Las Animas. | Boulder | Boulder | Las Animas. | Boulder | Gunnison | Garfield | Garfield | Las Auimas. | |
| United Coal Co | Colo. Fuel & Iron Co. | Colo. Fuel & Iron Co. | Colo, Fuel & Iron Co. | Colo. Fuel & Iron Co. | Colo. Fuel & Iron Co. | Colo. Fuel & Iron Co. | White Ash Coal Co | Colo. Fuel & Iron Co. | Colo. Fuel & Iron Co. | White Ash Coal Co | Colo. Fuel & Iron Co. | Colo. Fuel & Iron Co. | Colo. Fuel & Iron Co. | Garfield Coal Co | United Coal Co | Colo. Fuel & Iron Co. | United Coal Co | Colo. Fuel & Iron Co. | Colo, Fuel & Iron Co. | Colo. Fuel & Iron Co. | Colo. Fuel & Iron Co. | |
| Excelsior | No. 2 Coal Creek | Sopris | No. 2 Coal Creek | Loveland | No. I Coal Creek | Engleville | Loveland | Sopris | Sunshine | Sopris. | Garfield | Simpson | Sopris | Caledonia | Crested Butte | New Castle | New Castle | Engleville | |
| Miner | Miner | Miner | Miner | Miner | Miner | Miner | Miner | Miner | Miner | Miner | Mule driver | Timberman | Miner | Miner | Loader | Miner | Machine shoveler | Mule driver | Fire boss | Miner | Miner | |
| 23 Mike Flanning | Pasco De Jacimo | Rock Lypp | Wm. Atkins | Adam Segar | John Burns | 7 Joe Marnely | J. C. McLaughlin | Joseph Gilbert | J. M. Price | David Jones | James Hickey | Charles Blythe | Natale Zuccatte | Wm. Rouwtell | Frank Young | Mike Evans | Dan McGruder | Wm. Gordon | Thomas Ireland | Joe Lejame | Fran Abala | |
| | 7 30 | I V | ry s | ry 6 | ry 6 | | ry Io | bi 16 | ry 17 | 61 Y | ry 22 | ry 24 | ry 26 | ry 28 | 23 | 4 | 00 | 12 | 12 | 12 | 12 | |
| January | January | February | February | February | February | February | February | February | February | February | February | February | February | February | March | March | March | March | March | March | March | |

TABLE SHOWING NON-FATAL ACCIDENTS, 1892—Continued.

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|----------|-------------------|-----------------|------------------|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------|
| DATE. | NAME OF PERSON. | OCCUPATION. | NAME OF MINE. | COMPANY. | COUNTY. | NATURE OF ACCIDENT. | CAUSED BY |
| March 14 | Capero Carls | Miner | New Castle | Colo, Fuel & Iron Co. | Garfield' | Spine injured | Fall of coal |
| March 21 | Walter Jenser | Car runner | Excelsior | United Coal Co | Boulder | Leg bruised | Pit car |
| March 21 | James Wallock | Loader | Simpson | United Coal Co | Boulder | Finger amputatd | Fall of coal |
| March 22 | Ambrose Romero | Miner | No. 1 Victor | Victor Coal Co | Las Animas. | Eye ınjured | |
| March 24 | Moyar Antrell | Miner | No. 1 Coal Creek | Colo. Fuel & Iron Co. | Fremont | Arm bruised | Fall of coal |
| March 24 | L. Derameda | Miner | No. 2 Coal Creek | Colo. Fuel & Iron Co. | Fremont | Back injured | Fall of rock |
| April 4 | O. E. Weller | station boy | Sopris | Colo. Fuel & Iron Co. | Las Animas. | Foot burned | |
| April 5 | Joseph Brown | Miner | Pereless | United Coal Co | Las Animas. | Ribs fractured | Fall of rock |
| April 7 | August Ebner | Miner | No. 2 Coal Creek | Colo. Fuel & Iron Co. | Fremont | Leg bruised | Fall of slate |
| April 8 | 8 Simon Savinell | Miner | Gladston | Gladston Coal Co | Boulder | Leg broken | Fall of coal |
| April 12 | 12 L. Jacobs | Miner | Caledonia | United Coal Co | Boulder | Leg bruised | Fall of rock |
| April 12 | 12 B. R. Terrill | Miner | Loveland | Golden Fuel | Jefferson | Shoulder bruised | Pit car |
| April 12 | 12 John Williams | Miner | Loveland | Golden Fuel | Jefferson | Foot sprained | Fall of rock |
| April 12 | 12 J. H. Williams | Miner | Loveland | Golden Fuel | Jefferson | Leg broken | Fall of rock |
| April 13 | 13 Andrew Smith | Miner | Beruind. | Colo. Fuel & Iron Co. | Las Animas. | { Small bone in } leg broken} | Pit car |
| April 19 | 19 William Isacs | Miner | New Castle | Colo, Fuel & Iron Co. | Garfield | Leg bruised | Fall of coal |
| April 20 | 20 Daminic Piano | Machineshoveler | No. 7 Rockvale | Canon City Coal Co. | Fremont | Arm bruised | Runaway mule |
| April 2 | 23 F. P. Renohl | Mule driver | Sopris | Colo. Fuel & Iron Co. Las Animas. Arm bruised. | Las Animas. | Arm bruised | Pit car |
| | | | | | | | |

| field Leg broken Engine fly wheel | Las Animas. Finger bruised | Boulder Foot bruised | Boulder Injured Injured | Boulder Face injured Face injured | Garfield Back injured | La Plata Leg broken Fall of slate | Garfield Slightly burned. | Garfield Injured Explosion of gas | Boulder Back injured art of rock | Fremont Headinjured Fall of rock | Huerfano Leg fractured Leg fractured | Fremont Leg broken | Garfield Arm bruised | La Plata Sh'ld'r bone bknFall of coal | Boulder Arm strained Falling timber | Boulder Shoulder bruisedFall of coal | Las Animas. Leg bruised Pit car | El Paso Leg broken Fall of rock | Jefferson Hand bruised Hoisting cage | Gunnison Back bruised Fall of rock | |
|--------------------------------------|-----------------------------|----------------------|---------------------------|-------------------------------------|--------------------------|-------------------------------------|---------------------------|-----------------------------------|----------------------------------|----------------------------------|----------------------------------------|--------------------|--------------------------|---------------------------------------|-------------------------------------|--------------------------------------|---------------------------------|---------------------------------|--------------------------------------|------------------------------------|-------------------------------|
| - Colo. Fuel & Iron Co, Garfield | - Colo. Fuel & Iron Co. Las | United Coal Co Bor | - United Coal Co Bor | United Coal Co Bor | Colo. Fuel & Iron Co. Ga | Porter Coal Co La | Colo. Fuel & Iron Co. Ga. | - Colo. Fuel & Iron Co. Ga | United Coal Co Bor | Colo. Fuel & Iron Co. | Colo. Fuel & Iron Co. Hu | United Coal Co Fre | Colo. Fuel & Iron Co. Ga | . Porter Coal Co La | . United Coal Co Bor | United Coal Co Bor | - Colo. Fuel & Iron Co. Las | Union Ice & Coal Co. El | . White Ash Coal Co Jef | - Colo. Fuel & Iron Co. Gu | Cale Theolog Tanne Oc Canbald |
| New Castle | Sopris | Excelsior | Excelsior | Excelsior | New Castle | Porter | New Castle | New Castle | Caledonia | No. 2 Coal Creek | Rouse | Williamsburg | Sunshine | Porter | Excelsior | Excelsior | Englerville | Franceville | Loveland | Crested Butte | New Castle |
| Engineer | Miner | Mule driver | Cager | Mule driver | Miner | Miner | Miner | Miner | Miner | Miner | Miner | Miner | Miner | Miner | Miner | Miner | Dumper | Teamster | Miner | Miner | Miner |
| 24 Tom. S. Davis | Giavanni Barolo | John Constantine | Sam. Hendrie | James Meikle | Wm. Lindgreen | N. E. Terrill | Geo. Gray | Jacob Hartol | Joe. Bozark | Baldo Miscat | Joe. Rodney | Jas. Ross | Joe. Rossa | A. Anderson | John Stobe | Lew Fofmire | Bowman Duran | v. c. wolfe | H. S. Jones | Mike Molovich | Ed Humphrey |
| April 24 | April 25 | April 27 | April 27 | April 29 | April 29 | May 6 | May 9 | May 12 | May 12 | May 16 | May 16 | May 17 | May 18 | May 20 | May 20 | May 24 | June 3 | June 4 | June 7 | June ro | Tune 12 |

TABLE SHOWING NON-FATAL ACCIDENTS, 1892—Continued.

| | CAUSED BY | Fall of rock | Fall of coal | Falling down manway | Coal, while loading | Fall of ccal | Overcome by gas | Overcome by gas | Pit car | Pit car | Fall of coal | Premature blast | Fall of coal | Fall of coal | Horsting cage | Premature blast | Fall of rock | Fall of rock | Pit car |
|---|------------------------|-----------------------|------------------|---------------------|---------------------|------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|-----------------------|----------------|-----------------------|--------------------|--------------------|-----------------------|-----------------------|---------------------------------------------------------------|
| | | | - | - Fa | 1 1 1 6 | 1 | Α | Α | | 1 | - | | | | 1 | | | ; | |
| | NATURE OF ACCIDENT. | Hand bruised | Hand bruised | Head bruised | Finger bruised_ | Leg broken | Fell dwn m'nw'y | Fell dwn m'nw'y | Rib broken | Arm broken | Spine injured | Injured | Back injured | Head bruised | Leg broken | Leg broken | Leg broken | Arm broken | Leg bruised |
| | COUNTY. | Fremont | Boulder | Jefferson | Jefferson | Boulder | Garfield | Garfield | Las Animas. | Las Animas. | Huarfano | Fremont | Boulder | Carfield | Jefferson | Fremont | Fremont | Gunnison | Fremont |
| | COMPANY | Colo. Fuel & Iron Co. | United Coal Co | White Ash Coal Co. | White Ash Coal Co | Cannon Coal Co | Colo Fuel & Iron Co. | Colo. Fuel & Iron Co. | Trinidad C. & C. Co. | Trinidad C. & C. Co. | Colo. Fuel & Iron Co. | Colo. Fuel & Iron Co. | United Coal Co | Colo. Fuel & Iron Co. | White Ash Coal Co. | Canon City Coal Co | Colo. Fuel & Iron Co. | Colo. Fuel & Iron Co. | No. 1 Rockvale. Canon City Coal Co. Fremont Leg bruised |
| | NAME OF MINE. | No. 2 Coal Creek | Excelsior | Loveland | Loveland | Саппоп | New Castle | New Castle | No. 2 Starkville. | No. 2 Starkville. | Rouse | No. 2 Coal Creek | Caledonia | Sunshine | Loveland | No. 7 Rockvale | No. 2 Coal Creek | Crested Butte | No. 1 Rockvale. |
| | OCCUPATION. | Miner | Machine sh'v'ler | Miner. | Miner | Machine sh'v'ler | Miner | Miner | Mule driver | Mule driver | Mule driver | Mule driver | Mule driver | Mule driver | Machinist | Machinist | Miner | Miner | Mule driver |
| | NAME OF PERSON. | Joe De John | Pat Delanty | Andrew Fenell | August Johnston | John Owens | Wm. Jenkins | J Medreith | Henry Dolman | Alfred Hurley | Andro Batistie | Hugh Quigley | J, Lombard | Emanuel Fuve | J G. Legner | Baptista Gedds | Nicol Battista | Mike Byok | John Campley |
| | | 16 | 20 | 21 | 77 | 24 | 14 | 14 | 00 | 18 | 23 | 4 | 6 | II | II | SI | 23 | 24 | 31 |
| - | DATE. | June | June | June | June | June | July | July | July | July | July | August | August | August | August | August | August | August | August |

| ck | ar | ıst | ar | , sal | ar | bal | oal | bal | ale | bal | ar | bal | tot | lot | ot | ot | ot | Chr | ar | ck. | ck. |
|------------------------|------------------------------|----------------------------|---------------------------|----------------------|-----------------------|------------------|------------------------------|----------------------------|-------------------|-----------------------|-----------------------|----------------|-----------------------|-----------------------|------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Fall of rock | Pit car | Premature blast | Pit car | Fall of coal | Pit car | Fall of coal | Fall of coal | Fall of coal | Kick from a mule | Fall of coal | | Loading coal | Blown out shot | Blown ont shot | Blown ont shot | Blown out shot | Blown out shot | Fall of rock | | Fall of rock | Fall of rock |
| Foot bruised | Ankle sprained. | Injured | Hand bruised | Leg broken | Hand bruised | Ankle fractured. | Foot bruised | Leg bruised | Leg bruised | Collar bone brkn | Leg bruised | Hand bruised | Injured | Injured | Injured | Injured | Injured | Shoulder bruised | Leg bruised | Foot bruised | Thumb bruised. |
| Boulder | Las Animas. | Jefferson | Boulder | Las Animas. | Las Animas. | Las Animas. | Fremont | Jefferson | Boulder | Gunnison | Garfield | Boulder | Garfield | Garfield | Garfield | Garfield | Garfield | Las Animas. | Las Animas. | Fremont | Fremont |
| United Coal Co | Colo. Coal & Iron Co. | White Ash Coal Co | United Coal Co | Trinidad C. & C. Co. | Colo, Fuel & Iron Co. | Victor Coal Co | Colo. Fuel & Iron Co. | White Ash Coal Co | United Coal Co | Colo. Fuel & Iron Co. | Colo. Fuel & Iron Co. | United Coal Co | Colo. Fuel & Iron Co. | Colo. Fuel & Iron Co. | Colo. Finel & Iron Co. | Colo. Fuel & Iron Co. |
| Caledonia | Engleville | Loveland | Excelsior | No. 2 Starkville. | Engleville | No. 1 Victor | No. 2 Coal creek | L'oveland | Excelsior | Crested Butte | New Castle | Excelsior | Sunshine | Sunshine | Sunshine. | Sunshine | Suushine | Engleville | Engleville | No. 2 Coal creek | No. 2 Coal creek |
| Miner | Pit boss | Miner | Mule driver | Miner | | Miner | Miner | Miner | Mule driver | Miner | Mule driver | Miner | Miner | Miner | Miner | Miner | Mule driver | Miner | Mule driver | Miner | Miner |
| September 6 Joe Caroll | September 16 Alex Pollock Jr | September 16 Eurie Dulters | September 18 A. Rheinemer | James Neilson | Thomas Trugillo | Juan Duron | September 27 Dominick Pagano | September 28 Edward McCohg | Frank Rhineheimer | Mike Panian | Marshall Jones | S. R. Jenkins | Richard De Laury | Mike Glason | Morgan Davis | Prank Starrs | Anton Lane | Geo. Pagliosotts | Joe Fiserro | Pasqua De Jacimo | Philip Veal |
| er 6 | 91 Jan | er 16 | er 18 | er 19 | er 20 | | er 27 | er 28 | 3 | 100 | 4 | 9 | 9 | 9 | 9 | 9 | 9 | 11 | 19 | 20 | 21 |
| Septemb | Septemb | Septemb | Septemb | September 19 | September 20 | September 23 | Septemb | Septemb | October | , October | October | October | October | October | October | October | October | October | October | October | October |

TABLE SHOWING NON-FATAL ACCIDENTS, 1892—Concluded.

| NATURE OF ACCIDENT, CAUSED BY | Leg broken Fall of rock | le sprained. Mule falling on him | brokenPit car | Finger bruised Fall of rock | Foot bruised Fall of slate | Spine injured Fall of coal | Leg bruised Fall of slate. | Leg bruised Fall of coal | broken Fall of rock | s bruised Fall of slate |
|----------------------------------|----------------------------------------------------|---------------------------------------------------|----------------------------------------------|-----------------------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------|-----------------------------------------------|--------------------------------------------------------------|
| COUNTY. OF | | Las Animas. Ank | Las Animas. Leg | Fremont Fing | | | | Fremont Leg | Las Animas. Leg | Fremont Legs |
| COMPANY. | No. 2 Coal Creek Colo. Fuel & Iron Co. Fremont | Colo. Fuel & Iron Co. Las Animas. Ankle sprained. | Colo. Fuel & Iron Co. Las Animas. Leg broken | No. 2 Coal Creek Colo. Finel & Iron Co. | No. 2 Coal Creek Colo. Fuel & Iron Co. Fremont | No. 1 Coal Creek Colo. Fuel & Iron Co. Fremout | No. 1 Coal Creek Colo. Fuel & Iron Co. Fremont | No. 1 Coal Creek Colo. Fuel & Iron Co. | Colo. Fuel & Iron Co. Las Animas. Leg broken. | No. 2 Coal Creek Colo. Fuel & Iron Co. Fremont Legs bruised. |
| NAME OF MINE. | No. 2 Coal Creek | Engleville | Engleville | No. 2 Coal Creek | No. 2 Coal Creek | No. 1 Coal Creek | No. 1 Coal Creek | No. 1 Coal Creek | Berwind | No. 2 Coal Creek |
| OCCUPATION. | Miner | Mule driver | Mule driver | Mule driver | Miner | Miner | Miner | Miner | Miner | Miner |
| NAME OF PERSON. | James Clark | L. Griffith | David Cooley | M Tabor | Antonio Ross | Reese Edward | Frank Ross | November 17 Nicholas Schwarz | Manvell Lopez | Waldo Moscat |
| DATE. | October 24 James Clark | October 25 L. Griffith | November 12 David Cooley | November 12 M Tabor | November 14 Antonio Ross. | November 14 Reese Edward | November 15 Frank Ross. | November 17 | November 19 Manvell Lopez. | November 21 Waldo Moscat. |

Compliments of

John McMeil, M. E., Inspector of Mines.







PRODUCT AND CHARACTER OF COLURADO COAL MINES FOR 1892.

| | | | | NAME OF GUNDRAL | S CSHI OF LOCAL | | - KACTER | This knew of soul Scani, is fell | Number of | MINI FRATILITIE | C dome Ali Current | Has I apported Gar Reen Helected In Armit | Production of Lump Cost in Tone of Live | Produpling of Sut Corl | | Production of | Total Production of all | RAH, ROAD CONSECTING | RIMARKS |
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